GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:3267
ANSWERED ON:14.12.2011
LAUNCH OF SATELLITES
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Will the Minister of SPACE be pleased to state:

(a) the names of the satellites launched by the country during the last three years and the current year alongwith their functions and launching stations;

(b) whether any satellite launch failed in its mission;

(c) if so, the details thereof and the reasons therefor alongwith the details of the financial losses incurred as a result thereof;

(d) the rank/position of India in the world in satellite launching technology; and

(e) the steps taken/being taken by the Government to strengthen the satellite launching infrastructure?

Answer

MINISTER OF STATE IN THE MINISTRY PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE(SHRI V. NARAYANASAMY):

(a) During the year 2008 − 2011, a total of 17 national satellites were launched. Out of this, 16 were Launched by Indian Polar Satellite Launch Vehicle (PSLV) and Geo-synchronous Satellite Launch Vehicle (GSLV) from the Indian launching station located at Satish Dhawan Space Centre, Sriharikota, as per the details given below.

Sl. No	Name of the Satellite	Launch Date	Launch Vehicle	Functions
1.	CARTOSAT-2A	28-04-2008	PSLV-C9	Cartographic applications
2.	Indian Mini Satellite IMS-1	28-04-2008	PSLV-C9	Earth observation
3.	CHANDRAYAAN-1	22-10-2008	PSLV-C11	Lunar exploration
4.	RISAT-2	20-04-2009	PSLV-C12	Earth observation
5.	ANUSAT	20-04-2009	PSLV-C12	Technology demonstrator satellite – of Indian university
6.	OCEANSAT-2	23-09-2009	PSLV-C14	Oceanographic applications
7.	GSAT-4	15-04-2010	GSLV-D3	Communication purpose
8.	CARTOSAT-2B	12-07-2010	PSLV-C15	Cartographic applications
9.	STUDSAT	12-07-2010	PSLV-C15	Technology demonstrator satellite–of Indian university

10. GSAT-5P 25-12-2010 GSLV-F06 Communication purpose

11. RESOURCESAT-2 20-04-2011 PSLV-C16 Earth natural resources monitoring

12. YOUTHSAT 20-04-2011 PSLV-C16 Scientific research

13 GSAT-12 15-07-2011 PSLV-C17 Communication purpose

14 MEGHA-TROPIQUES 12-10-2011 PSLV-C18 Weather and climate related

15 SRMSAT 12-10-2011 PSLV-C18 Technology demonstrator
satellite-of Indian university

16 JUGNU 12-10-2011 PSLV-C18 Technology demonstrator
satellite-of Indian university

Further, GSAT-8 satellite, for communication purposes, was launched on May 20, 2011 from Kourou Launch Station, French Guiana onboard European Arianne Launch Vehicle.

(b) Yes, Sir.

(c) Of this, there have been a total of two failed launches viz. launch of GSLV-D3 with GSAT-4 satellite in April 2010 and launch of GSLV-F06 with GSAT-5P satellite in December, 2010.

The failure of GSLV-D3 flight was attributed to the anomalous stoppage of the Fuel Booster Turbo Pump of the Indigenous Cryogenic Upper Stage. The failure of GSLV-F06 flight was due to untimely and inadvertent snapping of group of connectors located at the bottom portion of the Russian Cryogenic Stage.

The total financial loss as a result of these two failed launches amounts to` 538 Cr.

(d) India is one among six space faring nations in the world in satellite launching technology. The other countries being USA, Russia, Europe, China and Japan.

(e) The Indian satellite launching station located at Satish Dhawan Space Centre, Sriharikota has two launch pads viz. First Launch Pad (FLP) and Second Launch Pad (SLP) with all necessary infrastructure to support the launches of presently operational Polar Satellite Launch Vehicle (PSLV) and Geo-Synchronous Satellite Launch Vehicle (GSLV). In addition, the SLP i s also capable of launching the new generation of launch vehicle GSLV-MKIII which is under development. In addition, the launching infrastructure at Sriharikota has been further strengthened with the addition of new Mission Control Centre, assembly, integration and test facilities for rocket stages, bulk storage facilities for rocket liquid propellants etc.